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# TRANSMITTAL FORM

(To be used for all correspondence after initial filing)

Application Number	10/539,539
Filing Date	February 3, 2006
First Named Inventor	Soumitra S. Ghosh
Art Unit	1614
Examiner Name	
Attorney Docket No.	660088.466USPC

## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
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<input type="checkbox"/> Amendment/Response	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to TC ( <i>Appeal Notice, Brief, Reply Brief</i> )
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<input type="checkbox"/> Response to Missing Parts/Incomplete Application	<input type="checkbox"/> Landscape Table on CD	_____

Remarks

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Seed Intellectual Property Law Group PLLC	Customer Number	00500
Signature			
Printed Name	Emily W. Wagner		
Date	June 2, 2006	Reg. No.	June 2, 2006

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

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PATENT

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June 2, 2006  
Date

Jason Añover

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Soumitra S. Ghosh et al.  
Application No. : 10/539,539  
Filed : February 3, 2006  
For : LIGANDS OF ADENINE NUCLEOTIDE TRANSLOCASE (ANT)  
AND COMPOSITIONS AND METHODS RELATED THERETO

Art Unit : 1614  
Docket No. : 660088.466USPC  
Date : June 2, 2006

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents:

In accordance with 37 CFR 1.56 and 1.97 through 1.98, applicants wish to make known to the U.S. Patent and Trademark Office the references set forth on the attached Information Disclosure Statement. Copies of cited U.S. patents and published patent applications are not required and accordingly have not been provided. Copies of any other cited references are enclosed. As to any reference cited, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 CFR 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants'

duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC



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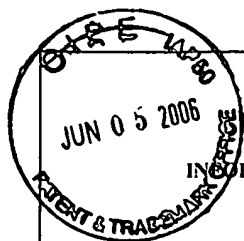
Emily W. Wagner  
Registration No. 50,922

Enclosures:

Postcard  
Information Disclosure Statement  
Cited References (23)

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U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

**INFORMATION DISCLOSURE STATEMENT**  
(Use several sheets if necessary)

ATTY. DOCKET NO.  
660088.466USPC

APPLICATION NO.  
10/539,539

APPLICANTS  
Soumitra S. Ghosh et al.

FILING DATE  
February 3, 2006

GROUP ART UNIT  
1614

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3,277,164	10/04/66	Haack et al.	260	520	
	AB	3,692,828	09/19/72	Onopchenko et al.	260	524 R	
	AC	3,886,162	05/27/75	Pfister et al.	260	279 R	
	AD	3,965,145	06/22/76	Dahl	260	473 R	
	AE	4,683,244	07/28/87	Moeller et al.	514	568	
	AF	4,935,240	06/19/90	Nakai et al.	424	400	
	AG	4,980,372	12/25/90	Nakai et al.	514	510	
	AH	5,217,994	06/08/93	Egbertson et al.	514	484	
	AI	5,426,196	06/20/95	Fang	549	307	
	AJ	5,684,015	11/04/97	Mederski et al.	514	303	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK	443 350	09/15/67	CH (+ Abstract in English)		
	AL	0 253 666 A2	01/20/88	EPO		
	AM	WO 93/24442	12/09/93	WIPO		
	AN	WO 99/36398	07/22/99	WIPO		
	AO	WO 01/04087	01/18/01	WIPO		
	AP	WO 03/080564	10/02/03	WIPO		

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

AQ	Andreyev, A.Y. et al., "The ATP/ADP-antiporter is involved in the uncoupling effect of fatty acids on mitochondria," <i>European Journal of Biochemistry</i> 182: 585-592, 1989.
AR	Beutner, G. et al., "Complexes between porin, hexokinase, mitochondrial creatine kinase and adenylate translocator display properties of the permeability transition pore. Implication for regulation of permeability transition by the kinases," <i>Biochimica et Biophysica Acta</i> 1368(1): 7-18, 1998.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  <b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)	ATTY. DOCKET NO. <b>660088.466USPC</b>	APPLICATION NO. <b>10/539,539</b>
	APPLICANTS <b>Soumitra S. Ghosh et al.</b>	
	FILING DATE <b>February 3, 2006</b>	GROUP ART UNIT <b>1614</b>

### U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	5,888,941	03/30/99	Bartoli et al.	504	262	
	BB	5,990,133	11/23/99	Gaster et al.	514	337	
	BC	6,262,113	07/17/01	Widdowson et al.	514	522	
	BD	6,344,466	02/05/02	Soll et al.	514	331	
	BE	6,680,345	01/20/04	Linz et al.	514	643	
	BF	6,855,341	02/15/05	Smith	424	642	

### FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	BG					

### OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	BH	Boveris and Chance, "The Mitochondrial Generation of Hydrogen Peroxide," <i>The Biochemical Journal</i> 134(3): 707-716, 1973.
	BI	Farrelly, E. et al., "A High-Throughput Assay for Mitochondrial Membrane Potential in Permeabilized Yeast Cells," <i>Analytical Biochemistry</i> 293(2): 269-276, June 15, 2001.
	BJ	Green and Reed, "Mitochondria and Apoptosis," <i>Science</i> 281:1309-1312, August 28, 1998.
	BK	Korshunov, S.S. et al., "Fatty acids as natural uncouplers preventing generation of O <sub>2</sub> <sup>-</sup> and H <sub>2</sub> O <sub>2</sub> by mitochondria in the resting state," <i>FEBS Letters</i> 435(2-3): 215-218, 1998.
	BL	Korshunov, S.S. et al., "High protonic potential actuates a mechanism of production of reactive oxygen species in mitochondria," <i>FEBS Letters</i> 416(1): 15-18, 1997.
	BM	Kroemer, G. et al., "The Mitochondrial Death/Life Regulator in Apoptosis and Necrosis," <i>Annual Review of Physiology</i> 60: 619-642, 1998.
	BN	Morin D. et al., "Mitochondria as target for antiischemic drugs," <i>Adv. Drug Deliv. Rev.</i> 49(1-2): 151-174, 2001.
	BO	Obatomi and Bach et al., "Inhibition of mitochondrial respiration and oxygen uptake in isolated rat renal tubular fragments by atractyloside," <i>Toxicology Letters</i> 89(2): 155-161, December 16, 1996.
	BP	Skulachev, V.P., "Fatty acid circuit as a physiological mechanism of uncoupling of oxidative phosphorylation," <i>FEBS Letters</i> 294(3): 158-162, December 1991.

EXAMINER	DATE CONSIDERED
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	APPLICANTS <b>Soumitra S. Ghosh et al.</b>	
	FILING DATE <b>February 3, 2006</b>	GROUP ART UNIT <b>1614</b>

### U.S. PATENT DOCUMENTS

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	CA						
	CB						
	CC						
	CD						
	CE						

### FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	CF					
	CG					
	CH					

### OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	CI	Skulachev, V.P., "Why are mitochondria involved in apoptosis? Permeability transition pores and apoptosis as selective mechanisms to eliminate superoxide-producing mitochondria and cell," <i>FEBS Letters</i> 397(1): 7-10, 1996.
	CJ	Syamal and Singh, "Synthesis and Characterization of New Polymer Supported Chelating Resins," <i>Journal Polymer Mater.</i> 6: 175-179, 1989.
	CK	Tait, B.D. et al., "Catechol Based Inhibitors of 15-Lipoxygenase," <i>Bioorganic &amp; Medicinal Chemistry Letters</i> 6(1): 93-96, 1996.
	CL	Tunã, F. et al., "A Synthetic Approach Towards Homotrinnuclear Complexes: Design of Mn(II), Cu(II) and Zn(II) Complexes Using a New Unsymmetrical Tetradentate Ligand," <i>Revue Roumaine de Chimie</i> 42(7): 579-585, 1997.
	CM	Wojtczak, L. et al., "Protonophoric Activity of Fatty Acid Analogs and Derivatives in the Inner Mitochondrial Membrane: A Further Argument for the Fatty Acid Cycling Model," <i>Archives of Biochemistry and Biophysics</i> 357(1): 76-84, September 1, 1998.
	CN	Yu, X.X. et al., "Characterization of novel UCP5/BMCP1 isoforms and differential regulation of UCP4 and UCP5 expression through dietary or temperature manipulation," <i>The FASEB Journal</i> 14: 1611-1618, August 2000.

EXAMINER	DATE CONSIDERED
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